

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308710019-2

CHERTKOVA, V. I.

✓ 4577. Role of oxygen during vulcanization of
natural rubber. A. S. Krasnopol'kin V. I.
CHERTKOVA. Dokl. Akad. Nauk SSSR, 1959, 109,
211-213; Russ. Chem. Rev., 1959, 38, 785-7.
This paper investigates the influence of oxygen
dissolved in rubber during vulcanization (in presses)
on the strength properties of the final product.

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APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308710019-2"

Cherikova, V.F.

Category : USSR/Atomic and Molecular Physics - Physics of High-Molecular Substances D-9

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3615

Author : Kuz'minskiy, A.S., Cherikova, V.F.

Inst : Scientific Research Institute of Rubber Industry, Moscow

Title : On the Nature of the Optimum Vulcanization of Natural Latex.

Orig Pub : Dokl. AN SSSR, 1956, 107, No 3, 428-431

Abstract : In the vulcanization of unfilled mixtures of natural latex containing accelerators (thiuram or diphenyl guanidine), the maximum amount of mobile sulphur (capable of exchange) corresponds to the optimum strength. When polysulfide sulphur is extracted from the vulcanizates with the aid of Na_2SO_3 , the strength is decreased, particularly at the optimum. No reversion is observed when vulcanizing with thiuram without sulphur, i.e., the presence of polysulfide bonds is an essential condition for the reversion. Swelling of the vulcanizates in vaseline oil (to the limit) and an increase in the test temperature (in the range from 25 to 140°) cause a sharp reduction in the tearing strength, this leading to the conclusion that the role of the transverse bonds lies principally in their favorable effect on the orientation and crystallization of the molecular chains.

Card : 1/1

Distr: 4E2c(j)

975. Properties of a Eucocinia gutta percha
bonding agent [REDACTED]

Journal Poly. Engg., 1961, 17, No. 46, 12-14.
Experimental results are presented showing that
it is possible to obtain from Eucocinia gutta percha
with the addition of iron 5 to 25% of common
indole resin a bonding agent which has
bonding properties similar to gutta percha.
The bonding properties of the new bonding agent
are compared with those of gutta percha.

GRINBERG, A.Ye.; CHERTKOVA, V.F.; SMOLYANITSKIY, V.Z.; MAKEYEVA, A.R.;
RUMYANTSEVA, N.P.

Using benzoates to protect rubber mixtures from scorching; report
no.1. Kauch. i rez. 18 no.1:22-27 Ja '59. (MIRA 12:1)

1. Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh
izdeliy.
(Vulcanization) (Benzoic acid)

CHERTKOV, V. F.

5.4460

AUTHOR: Kurnikov, V. N.; Chertkov, V. F.
Lobodov, Yu. V.

TITLE: Conversions of cis- to trans-polyisoprene by gamma-irradiation

PERIODICAL: Akademiya nauch SSSR, v. 143, no. 3, 1962, 611-614

TEXT: The initial stage of cis- and trans-polyisoprene structurization caused by 10-50 Mrad Co^{60} irradiation was studied. The conversion and disappearance of free radicals was determined by recording the epr spectrum. An epr spectrum with a signal width of 14 GigaHertz was observed on trans-polyisoprene after irradiation at room temperature in vacuo. The structure of the radical causing this signal could not be clarified; probably it was formed by separation of a hydrogen atom from the α -methylene group. At -196°C , irradiated trans-polyisoprene showed a broad singlet due to superposition of various radical spectra. If air was admitted to the ampoule at room temperature, the spectrum passed over into a poroxide spectrum. No opr spectrum appeared in cis-poly-

Card 1/3

Conversions of free radicals ...

isoprene at room temperature, owing to quick radical recombination. At -196°C., cis-polyisoprene showed a conversion similar to that of trans-compound. The conversion of cis-polyisoprene at -196°C. is higher than at room temperature. The formation of the percentage of free radicals is described by an equation of second order and corresponds to the first-order recombination $R' + R' \rightarrow R\bar{R}$. However, in the case of the isoprene polymer lines representing the "percentage of conversion" of the polymer, the "conversion" depends on the dose, if the dose is 100 rads for the polymer, the dose does the recombination due to radical reaction between the cis-isoprene part of the polymer. The following values have been calculated:

Dose, $r \cdot 10^{-6}$	10	20	37	47
$K_{off}, sec^{-1} \cdot 10^4$	6.05	4.05	3.04	2.74

Calculation of the degrees of cross linking according to P. B. Flory (J. Chem. Phys., 11, 521 (1943)) showed that at 10 $r \cdot 10^{-6}$ dose 600 isoprene units were broken for unit volume, but the number of cross links increased with the dose, up to 100 rads, 1.0 cross-links units were between two cross links. The degree of cross linking increasing

Card 2/3

Convalescence of free radiocells.

The number of cross links also proves that with increasing density of the network the mobility of members of the network increases. The number of free radiocells is proportional to the number of nodes.

ASSOCIATION: Periodical cluster formation and disbanding of the group participants (the number of nodes in the cluster is 10-12).
Link by participants of the cluster to the external network (nodes outside the cluster) is realized via the cluster center (radio station R-10).

PROTECTED: IPX.

PROTECTED: IPX over IP.

Unit 3/5

8/138/62/000/006/003/008
A051/A126

AUTHORS: Grinberg, A.Ye., Chertkova, V.F., Potashnik, A.A.

TITLE: Protection of rubber mixes against scorching with organic chlor-containing compounds

PERIODICAL: Kauchuk i rezina, no. 6, 1962, 9 - 11

TEXT: Well-known and unknown chlor-containing compounds as inhibitors of scorching were studied: dichloromelamine (DChM), trichloromelamine (TChM), hexachloromelamine (HChM), cyanur chloride (CCh), trichlorocyanuric acid (TChCA), sodium salt of dichlorocyanuric acid, (Na-DChCA), N,N'-dichloro-bis(2,4,6-trichlorophenyl)-urea (Chloramine), dichlorobenzosulfamide (chloramine B). The effectiveness of the chlor-containing compounds as inhibitors of scorching was found to depend on their chemical structure, on the distribution of the chlorine atoms in the molecule, and not on the number of chlorine atoms, nor their percentage content in the molecule. TChM, TChCA, CCh and Na-DChCA were shown to be considerably active inhibitors. The first two compounds, however, sharply inhibit vulcanization and cause a drop in the physico-mechanical properties. Chloramine,

Card 1/2

KUZMINSKIY, A.S., FEDOSEYEVA, T.B. AND CHERTKOVA, V.F.

"The role of free radicals in the radiation vulcanizing of elastomers."

Report submitted to the Conference on the Application of Radiation

KUZ'MINSKIY, A.S.; NEYMAN, M.B.; FEDOSEYEVA, T.S.; LEBEDEV, Ya.S.; BUCHACHENKO,
A.L.; CHERTKOVA, V.F.

Transformations of free radicals in γ -irradiated polyisoprenes.
Dokl. AN SSSR 146 no.3:611-614 S '62. (MIRA 15:10)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti i
Institut khimicheskoy fiziki AN SSSR. Predstavлено akademikom V.N.
Kondrat'yevym.
(Radicals (Chemistry)) (Gamma rays) (Isoprene)

ACCESSION NR: AP4017634

S/0190/64/C05/C02/C241/C03.1

AUTHORS: Fedoseyeva, T. S.; Kuz'minskiy, A. S.; Neiman, M. B.; Buchachenko, A. L.; Lebedev, Yu. S.; Chortkova, V. F.

TITLE: Effect of three-dimensional network on free radical annihilation problem. I. Dimers

SOURCE: Vyssokomolekulyarnye soyedineniya, v. 6, no. 2, 1964, 241-246

TOPIC TAGS: free radical, sodium-butadiene, thermal vulcanizate, EPR spectra, irradiated specimen, chain segment, activation energy, pre-exponential factor

ABSTRACT: The kinetic properties of free radicals formed in the γ -irradiation of thermally vulcanized sodium-butadiene of various degrees of cross-linking have been investigated by the EPR method. The thermal vulcanizate was obtained by preliminary heating of the purified polymer in the press at 220°C and under 50 atm pressures from 5 to 60 hours. The specimen was irradiated in vacuum at -196°C with a Co-60 source of 25 Mrad dose. The EPR spectra of the irradiated specimen were obtained on the EPR-2 IFIIF AN SSSR instrument at -196°C in 20 to 100° intervals. It is shown that formation of a three-dimensional network prolongs the lifetime of the

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ACCESSION NR: AP4017634

captured radicals. The rate of annihilation of these radicals decreases with increase in the number of cross-linkages. The rate for the same network density is limited by the mobility of the various chain segments. Furthermore, the activation energies and pre-exponential factors for the annihilation of free radicals in "mobile" and "sluggish" regions of the chain have been determined. Orig. art. has 5 figures and 1 table.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics AN SSSR); Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific Research Institute of the Rubber Industry)

SUBMITTED: 15Nov62

DATE ACQ: 25Mar64

ENCL: CO

SUB CODE: CH

NO REF SOV: 005

OTHER: COO

Card 2/2

FEDOSEYEVA, T.S.; KUZ'MINSKIY, A.S.; NEYMAN, M.B.; BUCHACHENKO, A.L.; LEBEDEV,
Ya.S.; CHERTKOVA, V.F.

Effect of space lattices on the kinetics of destruction of free radicals
in elastomers. Vysokom. soed. 6 no.2:241-246 F '64. (MIRA 17:2)

1. Institut khimicheskoy fiziki AN SSSR i Nauchno-issledovatel'skiy
institut rezinovoy promyshlennosti.

KONYUKHOV, I., svarshchik, strakhovoy delegat (Barnaul); CHERTKOVA, Ye.,
planirovshchitsa, strakhovoy delegat (Barnaul); MOROZOVA, G.,
spargovshchitsa, strakhovoy delegat (Barnaul); SHEL', O.,
zatochnik (Barnaul); SHCHERBINA, I., svarshchik (Barnaul)

We are interested in everything. Okhr. truda i sots. strakh. 5
no.9:18 S '62. (MIRA 16:5)

1. Obshchestvennye inspektora po okhhrane truda Altayskogo
motornogo zavoda (for Shel', Shcherbina).
(Gus'-Khrustal'nyi--Industrial hygiene)

CHERTKOVA, Ye.I., BELOUSOV, V.V., GORYACHEV, A.V., KIRILLOVA, I.V. and SORSKIY, A.A.

"Redistribution of material within crustal layers and folding", Soviet Geology, Sovetskaya geologiya, No 39, 1949.

CHERTKOVA, Ye. I.

166T33

USSR/Geophysics - Modeling
Faults

Sep/Oct 50

"Some Results of Modeling of Tectonic Faults,"
Ye. I. Chertkova, Geophys Inst, Acad Sci USSR

"Iz Ak Nauk SSSR, Ser Geograf i Geofiz" Vol XIV,
No 5, pp 415-421

Gives results of series of experiments made at
Tectonophys Lab, Geophys Inst, in modeling of
tectonic faults on cupola-like structures. Es-
tablishes typical forms of fissuring and traces
origin and development of fissures. Submitted
29 Apr 50 by Acad O. Yu. Shmidt.

166T33

CHERTKOVA, I.

USSR/Geophysics - Tectonic Fractures Nov/Dec 53

"Modeling the Expansion Waves of Large Tectonic
Fractures," N.V. Gzovskiy and Ya. I. Chertkova,
Geophys Inst, Acad Sci USSR

Iz Ak Nauk SSSR, Ser Geofiz, No 6, pp 481-499

Describes expts clarifying the mechanism governing
the formation of fractures and the formation of
waves occurring during expansion. Briefly de-
scribes the problem of detg how the curvature of
individual surface cleavages occurred.

273582

CHERTKOVA, Ye.I.

BELOUSOV, V.V.; CHERTKOVA, Ye.I.; ME, V.V.

Scale models of pitching folds. Biul. NOIP. Odd. geol. 30 no.5:117-124
S-0 '55. (Folds (Geology)) (MIRA 9:1)

KIRILLOVA, I.V.; CHERTKOVA, Ye.I.

Modeling tectonic deformations by means of directed extension
of volume. Izv. AN SSSR. Ser. geofiz. no.7:1037-1048 J1 '64.
(MIRA 17:7)

1. Institut fiziki Zemli AN SSSR.

CHERTKOVA, Ye. I., Cand. Medic. Sci. (diss) "Blood System for
Acinous Pneumonia in Young Children and Effect on It of Hemo-
therapy," Leningrad, 1961, 17 pp. (Leningrad Pediatric Med.
Inst.) 250 copies (KL Supp 12-61, 289).

KITIKAR', F.M.; CHERTKOVA, Ye.I.; AYZENBERG, L.M.

Pneumonia in infants; based on data of the First Pediatric Clinical Hospital in Kishinev. Zdravookhranenie 5 no.3:17-19 My-Je '62. (MIRA 16:1)

1. Iz kafedry detskikh bolezney (ispolnyayushchiy obyazannosti zaveduyushchego - kand.med.nauk F.M.Kitikar') Kishinevskogo meditsinskogo instituta i I Detskoy klinicheeskoy bol'nitsy (glavnnyy vrach K.S.Lokhvinskaya).
(PNEUMONIA) (INFANTS—DISEASES)

CHERTNOV, I.L.

Reactivity of the intestine to spasmolytic substances in cholesterol in atherosclerosis. Tr. Vsesoyuz. obsh. fiziol. no. 1:130-131 1952.
(CLML 24:1)

1. Delivered 28 April 1950, Moscow.

CHERTOK, B.N.

PHASE I BOOK EXPLANATION 50/1776

Akademija nauk Litovskoje SSR. Institute energetiki i elektrotehniki
istoricheskikh elektroustanovok i transportnykh sistem. 3 (Electrical Supply Systems
For Means of Transportation, 3) Riga, 1960. 228 p. (Series: Iek. Trudy, 9)

Editorial board: Z.P. Tashurov (Resp. Ed.) Candidate of Technical Sciences; V.V.
Spirin, Candidate of Technical Sciences; A.P. Kogortis, Candidate of Technical
Sciences; M. Ye. Savelyev; Tech. Ed.; Ya. Paville,

PURPOSE: This collection of articles is intended for technical personnel concerned
with electrical supply systems for means of transportation.

CONTENTS: This collection is the third in a series of works of the Institute of
Power and Electrical Engineering Academy of Sciences Litovskoje SSR concerned
with problems connected with the electrical supply systems for transportation.

Many of the articles deal with electric generators or electric power-supply
systems for railroad passenger cars, with emphasis placed on the design of a
synchronous generator with a built-in power rectifier. Other articles are con-
cerned with the analysis of the characteristics of magnetic amplifiers, the investigation of
various processes in synchronous regulation circuits, and the application of
asymmetrical reactors in transformer substations. References accompany most of the
articles.

CONTENTS

Chertok, B.N. Experimental Investigation of an Electric Automobile Parametric Circuit	53
Bogoliubov, N.N. Study of Compensation-Circuit Operation in Generators With Variable Reaction Speed	41
Agusti, V.L. Average Power of a Synchronous Machine	57
Boguslavskij, E.I. and K.P. Srimontis. Three-Phase Inductor Generator With Double-Yards Winding	69
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Kazakov, O.I. Recording the Temperature of Generators Fired Under a Railroad Car During a Run	107
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Emel'yanenko, Yu.S. and L.M. Salnikova. Use of Selenium Rectifiers in Automobile Electrical Equipment	125
Chernov, V. Universal Characteristics of a Saturable-Rectifier Magnetic Amplifier With a DC Output	133
In view of the large number of types of rectifiers and their connections, several hundred of experiments whose results would necessarily complicate the presentation, the author proposes to divide the problem of determining the characteristics of an amplifier into two stages, in order first to de- termine the estimated performance of an ideal rectifier, and secondly to take into account the effect of rectifier resistance. It is shown that during amplifier operation at active load the principles of de- sign and the determination of universal performance are the same for amplifiers operating through an ideal rectifier and for amplifiers with one output. The author discusses some general characteristics common to all magnetic amplifiers, e.g., the current gain factor, the power factor, the power gain factor, and the volume of steel and copper. The author concludes that the universal curves obtained are very valuable for de- termining various characteristics of amplifiers operating with active loads and thus for carrying out a qualitative analysis of an amplifier in regard to its main parameters. The author has helped in evaluating how the load characteristic of an amplifier is affected by structural changes. There are 4 references. Ed. Report.	

CHERTOK, B.N.

Study of the friction clutch of the drive of an electric starter.
Trakt. i sel'khozmash. 32 no.1:11-14 Ja '62. (MIRA 15:2)

1. Kuybyshevskiy zavod avtotraktornogo elektrooborudovaniya i
karbyuratorov.

(Clutches (Machinery) (Tractors)

CHERTOK, B.N., inzh.; POVOLTSKIJ, M. Ye., inzh.; BACHURIKHIN, N.P.,
inzh.

Method for improving the characteristics of asynchronous motors
with short-circuited rotors. Elektrotehnika 35 no.5:10-13 Nr#64
(MIRA 17:8)

L 5024-66 EWT(1)/EPA(s)-2

ACCESSION NR: AP5024579

UR/0292/65/000/009/0027/0031

42

621.313.33.001.4

23

AUTHOR: Chertok, B. N. (Engineer); Zinchenko, V. G. (Engineer); Strusovskaya, M. I. (Engineer); Kharabash, P. N.

TITLE: Investigation of the effect of partial insulation around the cast squirrel cage of a rotor

SOURCE: Elektrotehnika, no. 9, 1965, 27-31

TOPIC TAGS: induction motor

ABSTRACT: The results of an experimental investigation of the squirrel-cage rotor-core insulation and its effect on the induction-motor performance are reported. The aluminum-phosphate coating of the core was found to be the best. This coating proved to be able to withstand 550°C continuously and, when applied to the NaOH-etched core surface, ensured a contact resistance about 10--30 ohm-mm². The effect of this "partial" insulation was investigated by comparing the performance of standard and experimental rotors in the same stator of a KOM31-4 induction motor; the experimental rotors had skewed slots. It was found that the reduction of the motor losses, thanks to the introduction of the rotor insulation, resulted in

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ACCESSION NR: AP5024579

lowering the stator-winding temperature by 12°C and enhancing the motor efficiency by 2.5--3%; also the motor minimum and maximum torques increased by 5 and 12%, respectively. Orig. art. has: 2 figures, 9 formulas, and 3 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EE

NO REF SOV: 005

OTHER: 002

OC
Card 2/2

CHERTOK, B.N., inzh.; ZINCHENKO, V.G., inzh.; STRUSOVSKAYA, M.I., inzh.;
KHARABASH, P.N.

Study of the effectiveness of the partial insulation of a cast
squirrel-cage rotor. Elektrotehnika. 36 no.9:27-31 S '65.
(MIRA 18:9)

CHERTOK, B.N., inzh.; BACHURIKHIN, N.P., inzh.

Concerning the article "Methods for pouring rotors."
Elektrotekhnika 36 no.11:63 N '65.

(MIRA 18:11)

CHERTOK, BORIS YEFIMOVICH

PHASE I BOOK EXPLOITATION 875

Skrypnik, Ivan Pavlovich, and Chertok, Boris Yefimovich

Tekhnologiya metallov (Metals and Processes) Kiev, Mashgiz, 1958.
350 p. 50,000 copies printed.

Reviewer: Yarkina, V. T., Candidate of Technical Sciences, Docent;
Ed.: Sivay, A.V., Docent; Ed. of Publishing House: Soroka, M.S.;
Chief Ed. (Ukrainian Division, Mashgiz): Serdyuk, V.K., Engineer.

PURPOSE: The book is designed to increase the skills of workers in
machine-building plants.

COVERAGE: The book presents basic information on the properties of
metals and alloys. Testing methods are described and evaluated.
Particular attention is paid to problems of mechanization and
automation of metal-working processes. No personalities are
mentioned. There are 23 references, all Soviet.

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Metals and Processes	875
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AVAILABLE: Library of Congress (TA459.S55)

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Card 6/6

CHERTOK, Boris Yefimovich; TULA, F.A., inzh., retezentsent; CHERNYAK, V.A.,
inzh., retezentsent; SKRYPNIK, I.P., inzh., red.; ONISHCHENKO, N.P.,
red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Laboratory work on the technology of metals] Laboratornye raboty
po tekhnologii metallov. Moskva, Gos. nauchno-tekhn. izd-vo na-
shinostrukt. lit-ry, 1961. 181 p. (MIRA 14:7)
(Metallurgy--Laboratory manuals)

DOBROLENSKIY, Yurii Pavlovich, doktor tekhn. nauk, prof.; IVANOVA,
Valentina Ivanovna, kand. tekhn. nauk, dots.; POSPELOV,
Germogen Sergeyevich, doktor tekhn. nauk, prof.; Prinimal
uchastiye BODUNOV, N.K., kand. tekhn.nauk, dots.;
SOLODOVNIKOV, V.V., doktor tekhn. nauk, prof., retsenzent;
CHERTOK, B.Ye., doktor tekhn. nauk, retsenzent; VAVILOV,
Yu.A., kand. tekhn. nauk, dots., red.; SHEYNFAYN, L.I.,
red.izd-va; NOVIK, A.Ya., tekhn. red.

[Automation of guided missiles] Avtomatika upravliaemykh
snariadov. Moskva, Oborongiz, 1963. 548 p. (MIRA 16:12)
(Guided missiles) (Automatic control)

CHERTOK, B.Ye.; PERMYAKOV, V.L.; BOGUSLAVSKAYA, A.S., inzh.,
retbenz'it; BARABASH, Ya.I., inzh., retsenzent;
GRINSHIEYN, L.G., inzh., retsenzent; ZOL'NIKOVA, N.K.,
inzh., red.; FEDOROV, N.N., inzh., red.

[Technology of metals and structural materials] Tekhnologija metallov i konstruktionsnye materialy. Moskva,
Mashinostroenie, 1964. 410 p. (MIRA 18:1)

CHERTOK, F.K., inszh.

Welding in ship repairs. Sudostroenie 26 no.12:53-55 D '60.
(MIRA 13:11)

(Ships--Maintenance and repair)

KOVNER, M.S.; CHERTOK, I.M.

Coherent Cherenkov and magnetodeceleration instabilities of solar
corpuscular streams. Geomag. i aer. 3 no.6:1014-1020 N-D '63.
(MIRA 16:12)

1. Radiofizicheskiy institut pri Gor'kovskom gosudarstvennom
universitete.

AUTHOR: Fomichev, V. V.; Chertok, I. M.

ORG: Institute of Terrestrial Magnetism, Ionosphere, and Propagation of Radio Waves
of the Academy of Sciences SSSR (Institut zemnogo magnitizma, ionosfery i rasprostrani-
eniya radiovoln Akademii nauk SSSR)

TITLE: Evaluation of the intensity of the magnetic field in solar coronas from
radio bursts of type II

SOURCE: Astronomicheskiy zhurnal, v. 42, no. 6, 1965, 1256-1260

TOPIC TAGS: radio burst, plasma, solar corona, electromagnetic radiation,
solar flare, shock wave, electron drift, magnetic field, solar radio emission

ABSTRACT: Radio bursts of type II are generated by excitation of plasma waves in
solar corona which scatter on heterogeneities of coronal plasma and are trans-
formed into electromagnetic radiation. Shock waves may occur in front of plasma
accumulations which are ejected at high velocity from chromospheric flares. With no
collisions, the front of a shock wave has an oscillating structure and consists of
individual waves. Drifts of electrons occur in front of the shock wave because
of heterogeneities of the magnetic field. The generation of type-II radio bursts
depends not only upon the intensity of the magnetic field, but also upon the electron
concentration and the velocity of the exciting agent, which together form the
deciding factor for the maximum frequency of the burst. An inequality is expressed

UDC: 523.75.164

FOMICHEV, V.V.; CHERTOK, I.M.

Estimation of the magnetic field strength in the solar corona
from type II radio bursts. Astron. zhur. 42 no.6:1256-1260
N-D '65. (MIRA 19:1)

1. Institut zemnogo magnitizma, ionosfery i rasprostraneniya
radiovoln AN SSSR. Submitted March 3, 1965.

CHERTOK, L.; ZARECHKOVYY, G., brigadir-parketchik; USACHEV, I., brigadir-parketchik

Using staves of various size in parquet flooring. Na stroi, Mosk.
1 no.4:27 Ap '58. (MIRA 11:9)

1. Starshiy proizvoditel' rabot stroitel'nogo uchastka - 92 Mosotdel-stroya No.5 (for Chertok). 2. Stroitel'nyy uchastok -92 tresta Mos-otdelstroy No.5: (for Zarechkovyy, Usachev).
(Parquet floors)

CHERTOK, L.

Some characteristics of the technology of clothing manufacture
abroad. Log.prom. 18 no.6:52-53 Je '58. (MIRA 12:10)
(Clothing industry)

CHERTOK, L.; MONDZAIN, M.L.; BONNAUD, M. (Paris)

Psychological, social and cultural aspects of sickness during
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(Beskundikov--Brick industry)~~

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Disclosing industrial potentialities. Stroi. mat. 3 no.5:9 My '57.
(Shchokino--Pipe, Concrete) (MIRA 10:6)

CHERTOK, M.L., mekhanik

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Mekh. sil'. hosp. 11 no.5:14-15 My '60. (MIRA 14:3)

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(Combines(Agricultural machinery)) (Straw)

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1. Tsentral'naya zavodskaya laboratoriya Gor'kovskogo avtomobil'-
nogo zavoda im. V.M. Molotova.
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1. TSentral'naya laboratoriya Gor'kovskogo avtozavoda.
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CHERTOK, M. P., insh.

For the proposal of the turner I. I. Cherednichenko, Makh.
sil'. hosp. 14 no.2:16-17 F '63. (MIRA 16:4)

1. Zavedyushchiy maysterneyu plemzavodu "Lyubomirivka",
Dnepropetrovs'koi oblasti.

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CHERTOK, M.S., inzhener; BONDAREVSKIY, D.I., redaktor; PETROVSKAYA, Ye.,
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(Electric railroads--Cars)

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CHERTOK, M., inzh.

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(MIRA 11:?)

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CHERTOK, Mark Semonovich; BLOSTOTSKIY, I.A., red.; OTOCHEVA, M.A.,
Izd.12d-VB; Smirnov, A.A., tekhn.red.

[Design, maintenance, and repair of the street railway
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red.izd-va; LEMLYUKHIN, A.A., tekhn.red.

[Maintenance and repair of electric streetcar equipment] Remont
oborudovaniia tramvainykh vagonov; uchebnoe posobie dlia slesarei.
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(Streetcars--Maintenance and repair)

SURGUCHEV, Vladimir Dmitriyevich [deceased]; BONDAREVSKIY, D.I.,
retsenzent; CHERTOK, M.S., red.; OTOCHEVA, M.A., red.izd-va;
NAZAROVA, A.S., tekhn.red.

[Operation, maintenance and repair of the rolling stock of
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tramvai. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1960. 407 p.
(MIRA 13:12)

(Streetcars)

BONDAREVSKIY, Dmitriy Ivanovich, dotsent, kand.tekhn.nauk; YERMAKOV,
Nikolay Dmitrievich, inzh.; LIBERMAN, Grigoriy Evimovich,
inzh.; OVECHNIKOV, Yevgeniy Vasil'yevich, kand.tekhn.nauk;
CHERTOK, Mark Semenovich, inzh.; SURGACHEV, V.D., dotsent,
retsentent [deceased]; VOLOCHNEV, V.N., otv.red.; GALOEN, Yu.M.,
kand.tekhn.nauk, red.; TROFIMOV, A.N., red.; SHPOLYANSKIY, M.N.,
red.; NIKOLAEVA, T.A., ed.; LAKYUKHIN, A.A., tekhn.red.

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three volumes] Tekhnicheskii spravochnik po gorodskomu elektro-
transportu v trekh tomakh. Moskva, Izd-vo M-va kommun.khoz. RSFSR.
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T.A., red. izd-va; KHENOKH, F.M., tekhn. red.

[Operation and repair of streetcars and trolley buses in the
depot] Ekspluatatsiya i remont tramvainykh wagonov i trolley-
busov v depo. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1962. 180 p.
(MIRA 16:2)

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(Trolley buses—Maintenance and repair)

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CIA-RDP86-00513R000308710019-2

CHERTOK, Mark Semenovich; LUCHAY, G.A., red.; BALKOVSKAYA, I.Z.,
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RSFSR, 1963. 302 p.

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vaya. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1963. 405 p.
(MIRA 17:7)

MOLODYKH, Igor' Aleksandrovich; TREGUBENKO, Mikhail Grigor'yevich;
CHERTOK, Mark Semenovich; VOLOCHNEV, V.N., red.

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of Trolleybuses] Posobie dlja izuchenija Pravil tekhniches-
koi ekspluatatsii trolleybusov. Moskva, troiizdat,
1964. 226 p. (MIRA 17:8)

CHERTOK, Mark Semenovich; BELOSTOTSKIY, I.A., red.

[Design, repair and maintenance of the new rolling stock
of street railways] Ustroistvo, remont i soderzhanie no-
vogo podvizhnogo sostava tramvaia. Moskva, Stroiizdat,
1964. 249 p. (MIRA 18:2)

CHETOK, M.Yu.; PAMPILOW, Ye.A.

The SM-255 electric-powered loader. Mekh.trud.rab. 9 no.10:37-38
O '55. (Industrial electric trucks) (MLRA 9:1)

BOGOVY^Y, M.J., laureat Gosudarstvennoy premii dorts., red.; GURVICH, R.M., red.; CHERTOK, M.Yu., red.; BARANOVA, O.N., red.; IOFINOVA, T.S. B., red.

[Improving the quality of clay building bricks] Uluchshenie kachestva glinianogo stroitel'nogo kirkicha. Moskva, Leg-kaina Industriia, 1964. 146 p. (MIRA 18:5)

1. Vsesoyuznoye khimicheskoye obshchestvo im. D.I. Mendeleyeva. TSentral'noye i Moskovskoye pravleniya. 2. Moskovskiy inzhenerno-stroitel'nyy institut im. V.V. Kuybysheva (for Rogovoy).

MATVEYEV, I.S., CHERTOK, O.M.

Production of dicyclohexyl and dimethyldicyclohexyl esters of lower dicarboxylic acids. Zhur.prikl.khim. 38 no.6:1420-1421 Je '65.

(MIRA 18:10)

1. Lisichanskiy filial Gosudarstvennogo nauchno-issledovatel'skogo i proyektnogo instituta ozotnoy promyshlennosti i produkta organicheskogo sinteza.

L 08798-67 EWT(m)/EWP(j) IJP(c) WW/RM
ACC NR: AP6030851 (A,N) SOURCE CODE: UR/0191/66/000/009/0040/0042

AUTHOR: Li, P. Z.; Mikhaylova, Z. V.; Bykova, L. V.; Chertok, O. M.; Volkov, B. V.; Zaslavskiy, N. N.; Telegina, L. I.; Novikova, T. V.

ORG: none 34

TITLE: Moisture resistance and chemical stability of unsaturated polyester resins modified with colophony 15

SOURCE: Plasticheskiye massy, no. 9, 1966, 40-42

TOPIC TAGS: solid mechanical property, polyester plastic, synthetic material, physical chemistry property, stability constant

ABSTRACT: Moisture resistance and oxidation stability of two commercial resins modified with colophony, resin PN-10-¹ a copolymer of an unsaturated ester with styrene and resin TGM-3-² (a copolymer of an unsaturated ester and polyacrylate)³ and some glass laminates⁴ based on these two resins were investigated. The physical properties of the colophony-modified resins are tabulated. The tensile strength of the colophony-modified resins and the glass-laminates based on them was practically unaffected after holding in water or 25% sulfuric acid for 7-360 days. In general, the addition of colophony was found to be beneficial with respect to water resistance and chemical stability of the unsaturated polyester resins. Orig. art. has: 1 figure and 3 tables.

SUB CODE: 11/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 006
Card 1/1 not UDC: 678.674=9:547:914.2]:678.0r9.3

CHERTOK, P.

Method for the consolidated calculation of time consumed to
manufacture articles made of plastics by the pouring method.
Biul. nauch. inform.: trud i zar. plata 4 no.3:12-18 '61.

(MIRA 14:3)
(Plastics industry—Production standards)

DOLINSKIY, M.; CHERTOK, S.

Romain Rolland and Georgi Dimitrov in Moscow. Sov. foto 19
no.4:79 Ap '59. (MIRA 12:5)
(Rolland, Romain, 1866-1944)
(Dimitrov, Georgi, 1882-1949)

DOLINSKIY, M.; CHERTOK, S.

Honorary pioneer. Sov.foto 20 no.8:41 Ag '60. (MIRA 13:8)
(Barbusse, Henri 1873-1935)

DOLINSKIY, M.; CHERTOK, S.

Lenin is always with us. Sov.foto 22 no.4:1-4 Ap '62.
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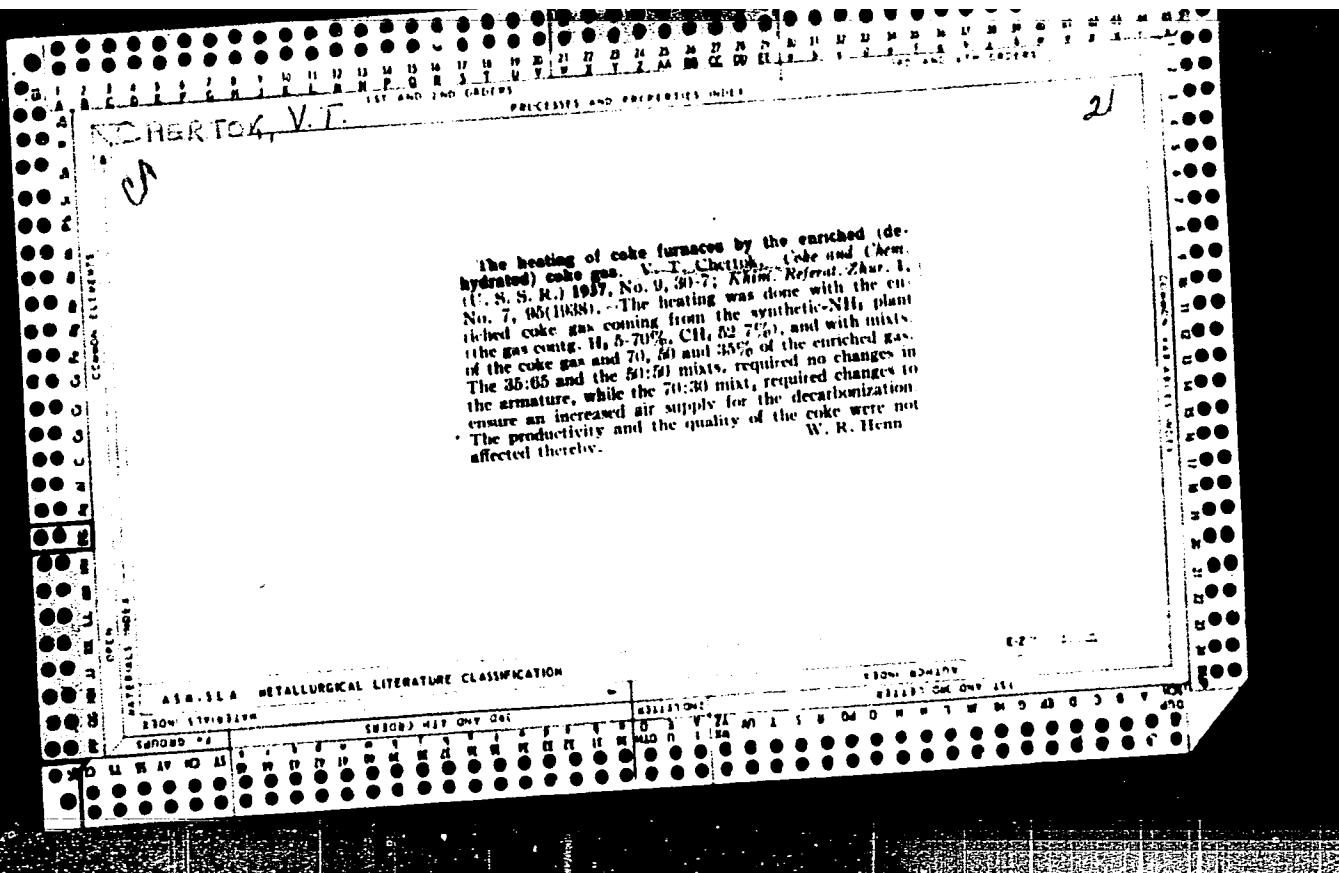
CHERTOV, V., insh. (Azerbaydzhanskaya SSR)

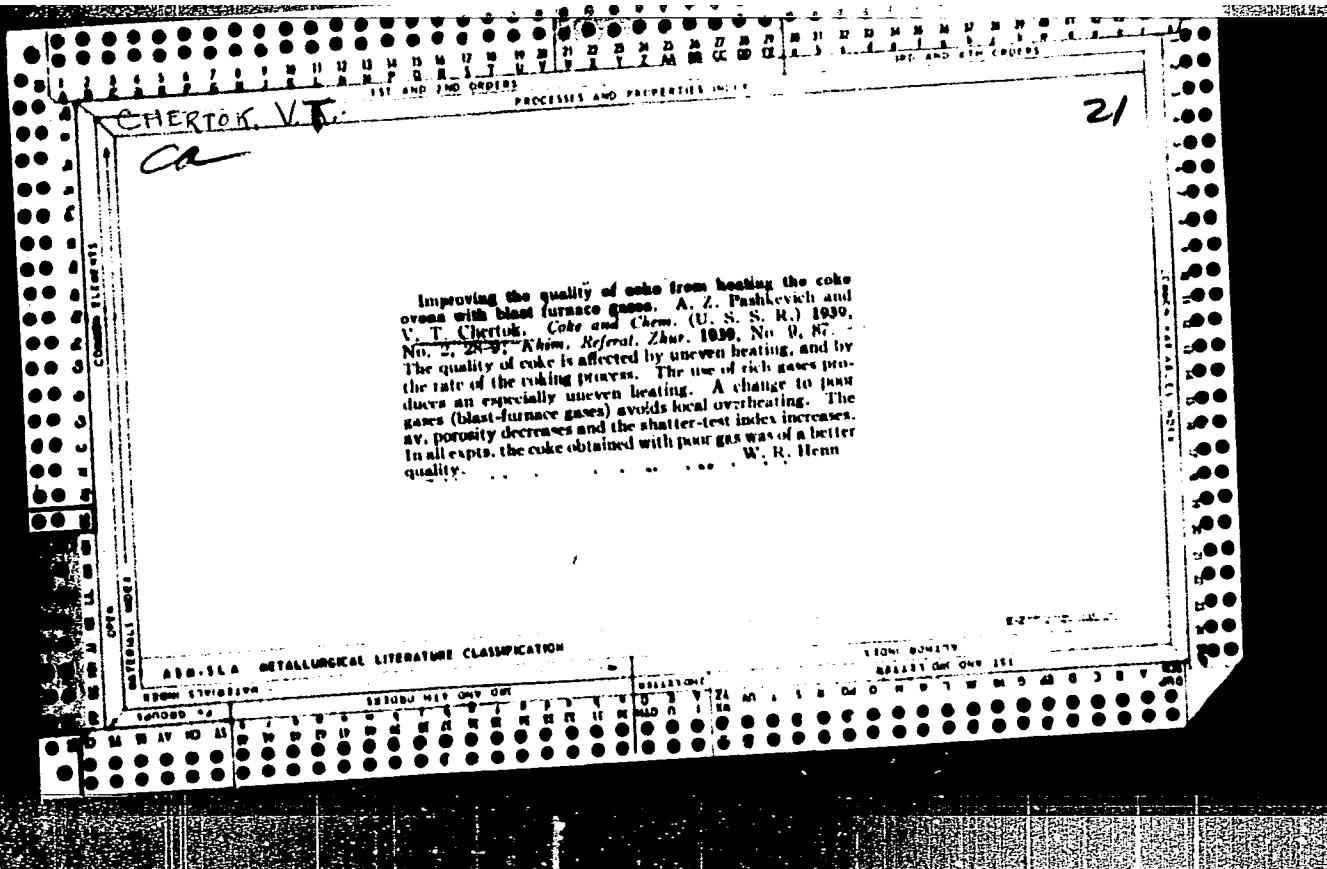
Operating semitrailers for cement transportation. Avt.transp.
40 no.9:23-25 S '62. (MIRA 15:9)
(Truck trailers) (Cement--Transportation)

CHAYKOVSKIY, V.F., kand.tekhn.nauk, dotsent; KUZNETSOV, A.P., inzh.; LOS', V.I.,
inzh.; CHERTOK, V.D., inzh.

Enthalpy-concentration diagram for the Freon 12 - Freon 22 mixture.
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Trudy OTIPiKhP 12:37-47 '62.

1. Kafedra kholodil'nykh mashin Odesskogo tekhnologicheskogo instituta
pishchevoy i kholodil'noy promyshlennosti.





CHERTOK, V.T.

AFONIN, K.B.; BURTSEV, K.I.; BYSTROV, S.N.; VINETS, G.B.; VODNEV, G.G.; VORONIN, A.S.; GEVLICH, A.S.; GRYAZNOV, N.S.; GUDIM, A.F.; GUSYATINSKIY, M.A.; DVORIN, S.S.; DIDENKO, V.Ye.; DMITRIYEV, M.M.; DONDE, M.M.; DOROGOBID, G.M.; ZHDANOV, G.I.; ZAGORUL'KO, A.I.; ZELENETSKIY, A.G.; IVASHCHENKO, Ya.N.; KANTAN, S.I.; KVASHA, A.S.; KIREYEV, A.D.; KLISHEVSKIY, G.S.; KOZYREV, V.P.; KOLOBOV, V.N.; LGALOV, K.I.; LEYTES, V.A.; LERNER, B.Z.; LOBODA, N.S.; LUBIMETS, I.A.; MANDRYKIN, I.I.; MUSTAFIN, F.A.; NEMIROVSKIY, N.Kh.; NEFEDOV, V.A.; OBUKHOVSKIY, Ya.M.; PRTSEV, M.A.; PETROV, I.D.; PODOROZHANSKIY, M.O.; POPOV, A.P.; RAK, A.I.; REVYAKIN, A.A.; ROZHkov, A.P.; ROZENGAUZ, D.A.; SAZONOV, S.A.; SIGALOV, M.B.; STOMAKHIN, Ya.B.; TARASOV, S.A.; FILIPPOV, B.S.; FRIDMAN, N.K.; FRISHEBERG, V.D.; KHAR'KOVSKIY, K.V.; KHOLOOPTSEV, V.P.; TSAREV, M.N.; TSOGLIN, M.E.; CHERNYY, I.I. CHERTOK, V.T.; SHILKOV, A.K.

(MLRA 9:10)

Samuil Berisovich Banne. Keka i khim. no. 6:64 '56.
(Banne, Samuil Berisovich, 1910-1956)

CHERTOK, V.T.; LEYBOVICH, R.Ye.; IVANOV, Ye.B.; SHCHEGOLEV, S.V.;
FARTUSHNAYA, R.M.; MUCHNIK, D.A.; TSYPIN, A.Z.

Effect of coking time on the quality of coke. Koks i khim.
no.1:23-25 '64. (MIRA 17:2)

1. Pridneprovskiy sovet narodnogo khozyaystva (for Chertok).
2. Dnepropetrovskiy metallurgicheskiy institut (for Levbovich).
3. Krivorozhskiy metallurgicheskiy zavod (for Ivanov, Shchegolev, Fartushnaya, Muchnik). 4. Koksokhimstantsiya (for TSypin).

CHERTOK, V.T.

Technical indices of the performance of the coke ovens of
the Dnieper Economic Region. Koks i khim. no.1:17-19 '64.
(MIRA 17:2)

1. Pridneprovskiy sovet narodnogo khozyaystva.

MALINOV, M.S.; KULIKOV, Yu.A.; CHERTOK, Ye.B.; YEVENKO, V.I., kand.
tekhn. nauk, retsenzent; UVAROVA, A.F., tekhn. red.

[Cooling systems of diesel locomotives] Okhlaszhdaiushchie
ustroistva teplovozov. Moskva, Mashgiz, 1962. 256 p.
(MIRA 16:1)

(Diesel locomotives--Cooling)

MALINOV, M.S., inzh.-konstruktor; CHERTOK, Ye.B., inzh.-konstruktor

Cooling system of the TEP60 main line diesel locomotive. Elek.
(MIRA 16:2)
i tepl.tiaga 7 no.2:26-30 F '63.

1. Kolomenskiy teplovozostroitel'nyy zavod im. V.V. Kuybysheva.
(Diesel locomotives--Cooling)

CHERTOK, E. R.

Chemical Abst.
 Vol. 48 No. 9
 May 10, 1954
 Organic Chemistry

(4Cl)²⁷¹

The synthesis of aromatic aldehydes. V. B. S. Vaserman,
 M. R. Chertok, and G. S. Sterina (Chem. Technol. Inst.,
 Dnepropetrovsk, Ukraine). Zbir. Prilad. Khim. 23,
 809-75 (1950); Chem. Zentr. 1951, I, 1588.—The method of
 Sommelet (cf. C.A. 8, 880) for the synthesis of aromatic
 aldehydes by the conversion of the -CH₂Cl group into the
 -CHO group without the use of strong oxidizing agents was
 applied to a series of ClCH₂ derivs. The *urotropine* (I)
 reaction (action of I on the appropriate ClCH₂ deriv. in
 alc. and hydrolysis of the product) proceeded readily and
 gave good aldehyde yields (60-8%). The aldehydes were
 identified as the *p-nitrophenylhydrazone* (II). PhCH₂Cl
 and I in alc. refluxed 1 hr., water was added, heating con-
 tinued another hr., the mixt. cooled, and the upper layer
 contg. the BrH extd. with ether, dried, and distd. from an
 oil bath gave 60% BrH, b. 179°; II, obtained by refluxing
 30 min. with *p-O₂NC₆H₄NHNH₂* in glacial HOAc, filtering,
 and recrystzg. from glacial HOAc, red crystals, m. 192°.
 The following RCHO, were similarly prep'd. from the anal-
 ogous RCH₂Cl [R, b.p. or m.p. yield (%)] and, in paren-
 theses, m.p. of II: *MeC₆H₅*, b. 205°, 65 (202°); 2,5-
Me₂C₆H₃, b. 220°, 59 (188°); *p-Me₂CHC₆H₃*, b. 234-5°, 85
 (193°); *p-O₂NC₆H₄*, m. 103-5°, 68 (249-50°); *I-C₆H₅*,
 light brown, thick liquid of characteristic odor, b_d 155°,
 66 (238°). The course of the reaction is assumed to be as
 follows: The Cl deriv. treated with I in ether forms a salt
 of the quaternary ammonium base; upon hydrolysis of
 this salt the RCH₂ radical is split off as RCH₂NH₂ and I
 decomp. into NH₃ and HCHO; the RCH₂NH₂ undergoes
 further reaction and dehydrogenation according to the
 Cannizzaro-Tischchenko reaction with the formation of
 RCH:NH, which is readily hydrolyzed to RCHO: RCH₂Cl
 $\xrightarrow{\text{H}_2\text{O}}$
 $\xrightarrow{\text{+} (\text{CH}_3)_3\text{N}_3}$ $\xrightarrow{\text{RCH}_2\text{NH}_2 + 3 \text{NH}_3 + 0 \text{ HCHO}}$
 $\xrightarrow{\text{RCH}_2\text{NH}_2 + \text{HCHO} + \text{H}_2\text{O} \rightarrow \text{RCH:NH} + \text{MeOH}}$
 $\xrightarrow{\text{H}_2\text{O}}$ $\xrightarrow{\text{RCHO} + \text{NH}_3\text{OH}}$

M. G. Moore

AF

CA CHERTOK, Ye. R.

10

Synthesis of aromatic aldehydes. B. S. Vasserman, N. M. Chertok, and N. Z. Sverina (Dnepropetrovsk Chem. Technol. Inst.), J. Applied Chem. U.S.S.R., 23, 910-93 (1950) (Engl. translation).—PhCH₂Cl (12.6 g.) and 14 g. benzene refluxed 1 hr. in 20 ml. n.c., then 1 hr. with 40 ml. H₂O gave 60% salt, b. 179°; *p*-nitrophenylhydrazone, m. 180°. The following aldehydes (I) were prep'd. similarly (yield (%), b.p., and m.p. of *p*-nitrophenylhydrazone given, resp.): salicylaldehyde, 66, 210°, 210°; 3,4-Me₂C₆H₃CHO, 39, 200°, 180°; cinnamaldehyde, 66, 220-8°, 180°; *p*-OHC₆H₄CHO, 66, m. 108-5°, 240-30°; and 1-C₆H₅CHO, 66, 155°/12 mm., 220°. Chloromethyl derivs. were prep'd. by standard methods. A mechanism is proposed which involves formation of a quaternary salt, hydrolysis to the aromatic amine (II), NH₃, and CH₂O, oxidation of II to an imine and hydrolysis of the imine to I. Jane C. Aycock

Synthesis of aralkylamines from chloromethylaryl compounds. A. K. Kirilenko and R. R. Chertok (Inst. Chem. Technol., Dnepropetrovsk). *Okrat. Khim. Zhur.* 20, 233-337 (1954) (in Russian). — *p*-Tolylamine, β -MeOC₆H₄CH₂NH₂ (I), and α -naphthylmethylamine were prep'd. by a new synthesis consisting of (1) chloromethylation, (2) condensation of the ClCH₂ derivs. with urea, and (3) decompn. of the condensation products with alkali. Thus, a mixt. of 200 ml. anisole, 200 ml. concd. HCl and 53 g. trioxymethylene agitated 4 hrs. at 8-10°, and the org. layer sepd. and distd. gave 98 g. β -ClCH₂C₆H₄OMe (II), b, 76-98°, which when refluxed with urea in H₂O, the mixt. steam distd., the residue sepd., dried, dispersed in boiling H₂O, filtered, the filtrate let stand until crystals appeared (12-16 hrs.), and these filtered off gave 75% p -anisylurea. This (10 g.) and 4 g. NaOH mixed, kept 1 hr., and distd. at 240-70° gave 91% I. The other amines were prep'd. similarly. CuCl increased catalytically the yield of *N,N'*-bis(naphthylmethyl)urea. The factors affecting the reactions at the various stages are described in some detail. Gary Gerard

MOSHCHINSKAYA, N.K.; BOYDEN, B.S.; KRUKOVSKIY, S.P.; LAKHMANCHUK, L.S.;
MOLOSOVA, V.P.; CHERTOK, Ye.R.

Synthesis of starting materials for the production of poly-
condensation resins. Izv.vys.ucheb.zav.; khim.i khim.tekh. 2
no.5:790-796 '59. (MIRA 13:8)

1. Dnepropetrovskiy khimiko-tehnologicheskiy institut.
(Phenol condensation products)
(Chemistry, Organic--Synthesis)

1. CHERTOVIN P.P.
2. USSR (600)
4. Forest Management
7. Forest improvement cutting. Les. khoz. 5 no. 11, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

CHERTOPOLOKHOV, A.L., inzhener.

Radioactive substances used by inventors in ferrous metallurgy.
Izobr. v SSSR 1 no.4:13-15 O '56. (MIRA 10:3)
(Radioisotopes--Industrial applications) (Iron alloys--metallurgy)

CHERTOPOLOKHOV, A.I.

Charging machine used in ferroalloy furnaces. Izobr. v SSSR 1
no.5:17-18 N '56. (MLRA 10:3)
(Iron alloys) (Foundry machinery and supplies)

CHERTOPOLOKHOV, L., insh.

Induction luminescent lamps. Mast. ugl. 8 no. 11:9 N '59.
(MIRA 13:2)
(Mine lighting)

GUDZENKO, L.I.; CHERTOPRUD, V.Ye.

Analysis of periodic solar activity. Astron.zhur. 39 no.4:758-
760 Jl-Ag '62. (MIRA 15:7)
(Sunspots)

CHERTOPRUD, V. Ye.

Nature of P₁-type peaks. Astron. zhur. 40 no.1:48-60
J-F '63. (MIRA 16:1)

(Sun)

GUDZENKO, L.I.; CHERTOPRUD, V. Ye.

Some dynamic properties of the cyclic activity of the sun.
→ Astron. zhur. 41 no.4:697-706 Jl-Ag '64 (MIRA 17:8)

1. Fizicheskiy institut im. P.N.Lebedeva AN SSSR i Gosudar-
stvennyy astronomicheskiy institut im. P.K.Shternberga.

L 52258-65 EEC-L/ENG(v)/EWT(1)/EEC(t) Pe-5/Pq-4 CW
ACCESSION NR: AP5010427 UR/0033/65/042/002/0267/0275

AUTHOR: Gudzenko, L. I.; Chertoprud, V. Ye.

TITLE: Model of cyclic solar activity

SOURCE: Astronomicheskiy zhurnal, v. 42, no. 2, 1965, 267-275

TOPIC TAGS: sunspot formation model, solar activity cycle, sunspot, solar equator, differential equation, decomposition measure, magnetic field, convection zone

ABSTRACT: A model of sunspot formation has been developed. The formation of sunspots depending upon the cycle of solar activity is considered to be a belt consisting of cells which are capable of separating under convective action. These separated cells emerge on the solar surface as a group or as individual spots. A mathematical theory is developed for rectangular cells arranged in symmetric belts on both sides of the solar equator. The probability of separation of cells is expressed by a system of differential equations related to find virtual strips of the cell belt. By varying the equation system, one finds the moments of separation of cells. The ratio of cells departing from the belt in a given unit of time to the total number of cells in the belt is the measure of decomposition. The theory of decomposition agrees in some way with the spot formation during the solar activity.

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L 52258-65

ACCESSION NR: AP5010427

cycle. The Coriolis force in the solar convection zone depends upon the heliographic latitude, which condition increases the magnetic field and the formation of "cellular" cells. The cell belt is formed inside the convection zone, and it changes with their magnetic state. The horizontal state of a "cellular" cell during the active cycle creates a magnetic field with a definite direction in space. (P7) during the active cycle creates a magnetic field with a definite direction in space. (P7) groups. Orig. art. has: 7 figures and 33 formulas.

ASSOCIATION: Gos. Astronomicheskiy inst. im. P. K. Shternberga (State Astronomical Institute); Fizicheskiy inst. im. P. N. Lebedeva AN SSSR (Institute of Physics, AN SSSR)

SUBMITTED: 12Jun64

ENCL: 00

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NO REF Sov: 007

OTHER: 003

ATD PRESS: 4010

Card 2/2 Pd

OZERNOY, L.M.; CHERTOPRUD, V. Ye.

Statistical characteristics of the optical variability of the
quasi-stellar radio source 3G 273. Astron. zhur., 43 no. 1:20-33
Ja-F '66 (MIRA 19:2)

1. Fizicheskiy institut imeni P.N. Lebedeva AN SSSR i Gosudars-
vennyy astronomicheskiy institut imeni P.K. Shternberga. Submitted
June 29, 1965.

GUDZENKO, L.I.; CHERTOPRUD, V. Ye.

Some characteristics of the phase of solar activity. Astron.
zhur. 43 no. 1:113-123 Ja-F '66 (MIRA 19:2)

I. Fizicheskiy institut imeni P.N. Lebedeva AN SSSR i Gosu-
darstvennyy astronomicheskiy institut imeni P.K. Shternberga.
Submitted May 8, 1965.

L 46920-66 EWT(1) GW
ACC NR: AR6015222

SOURCE CODE: UR/0269/65/000/012/0056/0056

AUTHOR: Chertoprud, V. Ye.; Kotov, V. A.

26
B

TITLE: A study of the characteristics of the Solar activity cycle ✓

SOURCE: Ref. zh. Astronomiya, Abs. 12.51.425

REF SOURCE: Astron. tsirkulyar, no. 318, marta 8, 1965, 1-4

TOPIC TAGS: Solar activity, solar activity cycle, solar cycle

ABSTRACT: The solar activity cycle was studied as a process which occurs in a natural oscillatory dynamic system of the second order, subject to the effect of briefly correlated fluctuations. Regardless of several differences in the processing of the observed atimal material, the results of the calculation of the position of the limiting cycle and the course of rigidity corresponds qualitatively to the results obtained earlier (RZhAstr, 1963, 3.51. 450; 1965, 5.51.376). The basic parameters of the obtained limit cycle are: $T_0 = 11.2 \pm 0.25$ y.; $X_0 \text{ min} = 6.4$; $X_0 \text{ max} = 105.0$; $Y_0 \text{ min} = 25.0$, $Y_0 \text{ max} = 40.0$. As in the earlier study, in the phase interval $\theta = 9.0$ to 10.5 there is a burst of rigidity. A conclusion was made

Cord 1/2

UDC: 523.746.5

ACC NR: AR6028773

SOURCE CODE: UR/0269/66/000/006/0065/0065

AUTHOR: Gudzenko, L. I.; Medvedeva, N. A.; Chertoprud, V. Ye.

TITLE: Latitudinal distribution of the solar cyclic activity

SOURCE: Ref. zh. Astronomiya, Abs. 6.51.497

REF SOURCE: Astron. tsirkulyar, no. 342, okt. 16, 1965, 1-4

TOPIC TAGS: sun, sunspot, sunspot cycle

ABSTRACT: Tables of the distribution of sunspots with respect to latitude and phase are computed from Greenwich sunspot catalogs for seven 11-year cycles of the solar activity. An analysis of the tables has shown that insignificant differences exist in distributions for the northern and southern hemispheres. Summary tables of the distributions of relative frequency of occurrence of sunspot groups are given.
[Translation of abstract] Bibliography of 10 titles. V. Ch.

SUB CODE: 03

UDC: 523.745

17(8)

SOV/177-58-7-27/28

AUTHORS: Chertoritskiy, A.P., Colonel of the Medical Corps;
Chernov, Ye.I., Major of the Medical Corps

TITLE: A Portable System for Inhaling Antibiotics and
Other Remedies With Oxygen

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 7, p 95
(USSR)

ABSTRACT: The author describes a portable inhaling apparatus
which is being used in therapeutic departments of
district hospitals in treating patients suffering
from acute and chronic diseases of the upper respi-
ratory passages and the lungs. There is 1 diagram.

Card 1/1

CHERTORITSKIY, A.P., polkovnik med.sluzhby; CHERNOV, Ye.I., mayor med.sluzhby

Portable system for the inhalation of antibiotics and other drugs
with oxygen. Voen.-med.zhur. no.7:95 Jl '58. (MIRA 12:12)
(INHALATION THERAPY)